

on. More particularly, the present invention pertains to an ultrasonic motor with reduced vibration loss to more efficiently transmit a drive force to a moving member.--;

Line 9, change "The" to --A conventional--;

Line 13, change "attentions have" to --attention has--;

Line 14, change "being" to --been-- and delete "the", first occurrence;

Line 17, change "The" to --A conventional--;

PAGE 2:

Line 2, change "board" to --board,--;

Line 3, delete "using" and delete "to hold one part of a vibrator";

Line 4, change "having a" to --that holds the-- and change "for" to --of--;

Line 5, change "there has been a necessity" to --it is necessary--;

Line 7, insert --a-- after "apply";

Line 8, change "That is, there" to --As a result--;

Line 9, change "encountered leakage" to --loss occurs--;

Lines 10 and 11, delete "caused on the piezoelectric element to an outside";
Line 12, change "The leakage of" to --In addition, loss of the--;
Line 13, delete "was" and insert --occurs-- after "also";
Line 14, delete "to the outside";
Line 15, change "the" to --a-- and change "could" to --does--;
Line 16, change "and" to --thus--;
Line 17, change "impaired in ultrasonic motor characteristic of high" to --impairing the--;
Line 18, delete "efficacy";
Line 19, change "Meanwhile" to --Further--;
Line 20, change "prevented against" to --prevents--;
Line 21, change "hence increased factors to lower its" to --decreases the--;
Line 22, insert --of the motor-- after "reliability";
Line 24, change "a" to --an-- and change "which is decreased in factors to leak" to --with reduced loss of the--;
Line 25, change "and" to --so as to--;

PAGE 3:

Line 1, insert --and-- before "wherein";

Delete Line 4 in its entirety;

Line 5, change "by a ultrasonic motor, as claimed, comprises:" to --In accordance with the present invention, an ultrasonic motor is provided that includes--;

Line 6, change "due to" to --in response to-- and change "signal and" to --signal.--;

Line 7, change "generating a drive force; and a support member for supporting" to --The oscillating piezoelectric vibrator generates a drive force. A support member supports--;

Line 8, change "substrate; wherein the" to --substrate. The--;

Line 9, change "has a signal transmission function to transmit" to --also transmits--;

Line 11, change "Here, the" to --The--;

Line 12 change "a", first occurrence, to --its-- and change "of a metal" to --it is formed of a metal so as--;

Line 14, change "Meanwhile, the" to
--The--;

Line 15, insert --the piezoelectric
vibrator may be formed as-- after
"Alternatively,";

Line 16, delete "may be applied";

Line 17, delete "thereto";

Line 23, insert --loss of-- after
"Accordingly,";

Line 25, delete "in leak amount to an
outside" and insert --ultrasonic motor--
after "conventional";

PAGE 4:

Line 2, change "transmit" to
--transmits--;

Line 4, change "the unnecessary of" to
--in accordance with the present
invention, there is no need for--;

Line 5, change "offers size reduction for"
to --thus decreasing the size of--;

Line 6, change "hence decrease" to
--further decreasing--;

Line 7, change "manufacturing cost." to
--the cost to manufacture the inventive
ultrasonic motor.--;

Delete line 8;

Line 9, change "the aforesaid" to --Also,
in accordance with the present inventive--
and delete "has";

Line 10, change "elasticity," to --is
elastic-- and change "being" to --is--;

Line 11, change "a" to --the-- and change
"an" to --the--;

Line 13, change "method to provide the" to
--elastic-- and delete "with elasticity";

Line 14, change "includes using as a" to
--is comprised of an elastic";

Delete line 16 in its entirety;

Line 17, delete "equivalent to that of the
above invention.";

Line 18, change "on" to --toward--;

Line 22, change "Next, the present
invention is characterized in that, in" to
--Also, in accordance with--;

Line 23, change "aforesaid" to
--inventive--;

Line 24, insert --portion-- after
"constriction" and change "made thin than
a" to --thinner than a connection--;

PAGE 5:

Line 1, change "According to this
invention, the provision of" to
--Accordingly,--;

Line 2, change "in" to --portion of--;

Line 3, change "in" to --of-- and delete
"that the";

Line 4, change "constriction reduces the
leak" to --as to reduce the loss-- and
delete "furthermore";

Line 7, change "constriction, and has an"
to --constriction portion.--;

Delete line 8 in its entirety;

Line 9, insert --in accordance with--
before "the present" and delete "is
characterized in";

Line 10, delete "that, in the aforesaid
ultrasonic motor,";

Line 12, change "Acceding to this
invention," to --Thus,--;

Line 13, change "one" to --a--;

Line 15, insert --in accordance with--
before "the" and delete "is characterized
in";

Line 16, delete "that, in the aforesaid
ultrasonic motor,";

Line 18, change "Here," to --In accordance
with this aspect of the present
invention--;

Line 21, change "as one" to --formed as
a-- and delete "which has been left
without";

Delete Line 22 in its entirety;

Delete Line 23 in its entirety;

Line 24, delete "available to that of the
above invention." and delete "there";

Line 25, change "is decrease in" to
--the--, insert --inventive-- before
"ultrasonic" and change "plus the" to --is
decreased--;

PAGE 6:

Delete Line 1 in its entirety;

Delete Line 2 in its entirety;

Line 6, change "invention, a similar
operation is" to --aspect of the
invention,--;

Line 7, delete "available to that of the
above invention. In addition,";

Line 10, change "procedure to" to --manner
as the--;

Line 11, insert --accordance with-- after
"in";

Line 15, change "reduce in mounting cost
and stabilized in mounting" to --less
expensive and more stable.--;

Line 16, delete "process." and change
"ultrasonic motor is reduced in" to
--inventive ultrasonic motor--;

Line 17, change "variation of performance"
to --has better performance
characteristics--;

Line 18, delete "the present invention is
characterized in that,";

Line 19, change "in the aforesaid
ultrasonic motor," to --in accordance with
the present invention,--;

Line 21, insert --aspect of the-- before
"invention,";

Line 22, insert --number of-- before
"drive";

PAGE 7:

Line 1, insert --a-- after "from";

Line 5, delete "the preset invention is"
characterized in that,";

Line 6, change "in the aforesaid
ultrasonic motor," to --in accordance with
the present invention,";

Line 11, change "invention" to --aspect of
the invention--;

Line 14, change "decrease in externally
leaking" to --a decrease in the--;

Line 15, insert --loss-- after
"vibration";

Line 19, delete "the present invention is
characterized in";

Line 20, change "that, in the aforesaid
ultrasonic motor," to --in accordance with
the present invention,--;

Line 23, change "invention" to --aspect of
the invention--;

Line 24, change "leaks to an" to --is lost
to the--;

PAGE 8:

Line 1, change "is increased in" to --has
increased output efficiency--;

Line 6, change "a ultrasonic" to --an
ultrasonic--;

Line 7, delete "1";
Line 9, delete "14", delete "15" and
delete "13a";
Line 10, delete "to 13f", delete "10" and
insert --inventive-- before "ultrasonic";
Line 11, delete "1";
Line 14, change "structural" to
--structurally--;
Line 15, delete "a ultrasonic motor 2 as"
and insert --inventive-- before
"ultrasonic";
Line 16, delete "1";
Line 17, change "a ultrasonic" to --an
ultrasonic--;
Line 18, delete "3";
Line 19, change "structural" to
--structurally--;
Line 20, delete "a ultrasonic motor 4 as";
Line 21, change "3;" to --shown in Fig. 5;
and--;
Line 23, change "appliance with ultrasonic
motor 5" to --appliance constructed with
an ultrasonic motor--;

PAGE 9:

Line 1, change "Embodiments" to
--Embodiments of the present invention--
and delete "to which the";
Line 2, delete "invention is applied,";
Line 3, change "a ultrasonic" to --an
ultrasonic--;
Line 5, insert --configured-- after "motor
2";
Line 7, delete "Meanwhile," and change
"ultrasonic" to --second embodiment of the
inventive ultrasonic--;
Line 8, delete "as a second embodiment of
the invention";
Line 9, change "a ultrasonic" to --an
ultrasonic-- and insert --configured--
after "motor 4";
Line 11, delete "Meanwhile,";
Line 14, delete "[EMBODIMENTS]";
Line 15, delete "[First Embodiment]";
Line 16, change "an" to --the-- and change
"of a" to --of the--;
Line 18, delete "is structured";
Line 19, change "by" to --includes-- and
delete "is";

Line 20, change "inputted by" to
--receives a-- and change "elliptical" to
--elliptically--;
Line 21, change "members 11, 11 that" to
--members 11, 11. Support members 11,
11-;
Line 23, change "substrate 7; a" to
--substrate 7. A-- and change "having" to
--has--;
Line 25, change "element 10, and a" to
--element 10. A"-- and insert --is--
before "provided";

PAGE 10:

Line 5, delete "hereinafter referred to,";
Line 6, delete "to be";
Line 8, change "That is" to --In
accordance with the present invention--
and delete "is a ultrasonic motor which";
Delete Line 13 in its entirety;
Line 17, delete "totally" and change
"number is" to --is the--;
Line 20, change "on" to --to--;
Line 24, insert --for- after manner;

PAGE 11:

Line 1, change "Meanwhile, the signal
line" to --Signal lines--;
Line 7, change "Due to this, the" to
--The--;
Line 13, change "That is," to --Thus,--;
Line 15, delete "hence";
Line 20, insert --provided-- after "14";

PAGE 12:

Line 1, change "electrode" to
--electrodes--;
Line 4, change "in" to --approximately in
the center of--;
Line 5, delete "at generally center";
Line 7, change "Here, the" to --The--;
Line 11, change "in" to --on-- and delete
"Meanwhile,";
Line 12, change "arranging position" to
--arrangement-- and insert --the-- after
"in";
Line 14, change "arranging position" to
--arrangement-- and insert --the-- after
"in";
Line 16, delete "Meanwhile,";

Line 18, delete "Meanwhile,";
Line 20, change "First explained in a" to
--A-- and change "in" to --of--;
Line 21, insert --will next be explained--
after "vibrator";
Line 23, delete "of" and insert "divided
into" after "also";
Line 24, delete "into four";

PAGE 13:

Line 5, change "in" to --on--";
Line 6, change "in" to --on-- and insert
--surface-- after "underside";
Line 7, change "explained are" to --the--
and change "structures" to --structure--;
Line 8, insert --will be explained-- after
"13f";
Line 9, change "almost" to
--substantially-- and delete "over";
Line 14, change "to become" to --brought
to--;
Line 16, change "almost" to
--substantially--;
Line 21, change "to become" to --brought
to--;

Line 23, change "almost" to
--substantially-- and change "one" to
--a--;

PAGE 14:

Line 3, change "to become" to --brought
to--;
Line 5, change "almost" to
--substantially--;
Line 10, change "to become" to --brought
to--;
Line 12, change "almost" to
--substantially--;
Line 17, change "to become" to --brought
to--;
Line 25, delete "and";

PAGE 15:

Line 3, insert "brought" after --are--;
Line 4, delete "become";
Line 23, change "a rectangular" to
--rectangle--;

PAGE 16:

Line 4, change "a rectangular" to
--rectangle--;
Line 5, insert --only-- before "members";

Line 6, change "is only" to --are--;

Line 7, change "leak" to --loss--;

PAGE 17:

Line 5, change "the ultrasonic" to --a
first embodiment of the inventive--;

Line 6, delete "as a first embodiment of
the present invention";

Line 10, insert "loss of the" after
--the--;

Line 11, change "cased" to --caused-- and
delete "are";

Line 12 change "reduced in amount of leak
to an outside" to --is reduced--;

Line 13, insert --ultrasonic motor-- after
"conventional" and change "member" to
--members--;

Line 14, insert --loss of the-- before
"flex";

Line 15, change "reduced in" to
--reduced.--;

Line 16, delete "amount of leak to an
outside.";

Line 19, change "size and also" to --size,
along with-- and insert --thereby-- after
"processes";

Line 20, change "cost" to --costs--;
Line 24, change "the embodiment" to --this
embodiment--;

PAGE 18:

Line 2, change "support member" to
--number of support members--;
Line 7, change "decreases, the" to
--decreases, and the required-;
Line 8, delete "required";
Line 10, change "Incidentally, the" to
--The--;
Line 18, change "member 21 is" to
--members 21 are--;
Line 20, change "That is," to --Thus,--:
Line 21, change "support member 21
possesses" to -- support members 21
possess--:

PAGE 19:

Line 1, change "presses" to --press--;
Line 3, change "omittedly" to --not--;
Line 4, change "as" to --has--;
Line 5, change "to" to --as--;
Line 7, insert --an-- before "increase";
Line 13, change "leak" to --the loss--;
Delete Line 24 in its entirety;

PAGE 20:

Line 2, insert --second embodiment of the
inventive-- before "ultrasonic";
Line 3, change "in a structure that" to
--having a structure with--;
Line 7, change "almost" to
--substantially--;
Line 9, delete "not-shown" and insert
--that are not shown-- after constituents;
Line 10, change "almost" to
--substantially--;
Line 16, change "in" to --having--;
Line 17, delete "previously" and change
"for a" to --for the--;
Line 18, change "this" to --the T-form
shape described above--, change (b) to
5(b) and delete "of the";
Line 19, delete "figure" and change
"portion" to --portion is formed--;
Line 24, delete "a" and change "line to"
--lines--;

PAGE 21:

Line 5, change "tat" to --that--;
Line 21, change "server" to --servers--;

Line 22, insert --loss of the-- before
"expanding";

Line 23, change "occurred" to
--occurring--;

Line 24, delete "in lead amount to an
outside";

Line 25, insert "ultrasonic motor" after
--conventional--;

PAGE 22:

Line 2, insert --loss of the-- before
"flex";

Line 3, delete "in leak amount to the
outside";

Line 17, delete "only";

Line 20, change "there obtains" to --a--;

Line 21, insert --is obtained-- after
"member";

Line 23, delete "one";

Line 24, change "decreases to decrease a"
to -- is decrease to decreased, reducing
the required--;

PAGE 23:

Line 1, delete "required";

Line 2, insert --in size-- after
"smaller";

Line 3, delete "Incidentally, the" to
--The--; and insert --further-- before
"modified";

Line 8, change "in almost" to
--substantially--;

Line 15, delete "support";

Line 18, change "flash" to --flush--;

Line 20, change "form" to --shape-- and
insert --a-- after "generally";

PAGE 24:

Line 4, insert --the-- after "generally";

Line 7, change "the" to --accordance with
the inventive-- and delete "reduced is";

Line 8, change "leak amount to the outside
of the" to --the loss of the--;

Line 9, insert ---is reduced-- after "40";

Line 10, change "conventional, similarly
to the" to --conventional--;

Line 13, change "further reduced is the
leak amount to the outside" to --the
amount of loss of";

Line 14, delete "of" and insert --is
further reduced-- after "40";

PAGE 25:

Delete Line 13 in its entirety;

Line 14, change "of" to --illustrating--
and change "with" to --incorporating an
embodiment of the inventive";

Line 15, change "motor 5 that the
ultrasonic motor of the present" to
--motor 5.--;

Delete Line 16 in its entirety;

Line 17, insert --an-- after "with";

Line 18, insert --a-- after "by";

PAGE 26:

Line 2, insert --provided-- before "by";

Line 3, change "with" to --incorporating
an embodiment of the inventive--;

Line 18, change "Because this" to --The--
and change "with" to --incorporates an--;

Line 19, change "uses a ultrasonic motor"
to --constructed-- and insert
--present-- before "invention";

Line 20, insert --and thus-- after
"motor,";

Line 22, change "it" to --the electronic
appliance-- and change "the" to --a
similar--;

PAGE 27:

Line 2, change "with" to --incorporating
an inventive--;

Line 3, change "Incidentally," to
--Further,--;

Line 5, change "to transmit" to --for
transmitting--;

Line 6, change "structured by" to
--obtained using--;

Line 9, change "providing" to --provide--;

Line 10, insert --loss of the-- after
"the";

Line 12, delete "in leak amount to an
outside";

Line 13, insert --ultrasonic motor-- after
"conventional";

Line 14, insert --present-- after "the";

Line 17, change "the unnecessary" to --in
accordance with the present invention, the
necessity";

Line 18; change "offers size reduction for
the" to --is avoided, thus reducing the
size of the inventive--;

Line 19, change "hence decrease" to
--decreasing--;

Line 20, change "reduction in manufacture"
to --a reduction in manufacturing--;
Delete Line 21 in its entirety;
Delete Line 22 in its entirety;
Line 23, change "addition," to --In
accordance with the present invention,";

PAGE 28:

Line 5, change "in the support member so
that the" to --and reduces vibration
loss,--;
Line 11, change "acceding to this
invention," to --in accordance with the
present invention,--;
Line 12, delete "one";
Delete Line 14 in its entirety;
Line 15, change "is available to that of
the above invention. In addition," to --In
addition, in accordance with the present
invention,--;
Line 16, insert --a-- before "decrease"
and insert --the-- before "thickness";
Line 17, insert --as compared with the
conventional art-- after "substrate";
Delete Line 19 in its entirety;